



WR-75 Square Type Flange to End Launch SMA  
Female Waveguide to Coax Adapter Operating  
From 10 GHz to 15 GHz, X-Ku Band

Waveguide to Coax Adapters Technical Data Sheet

PE9847

**Features**

- X-Ku Band, 10 to 15 GHz Frequency Range
- WR-75 Waveguide Interface with Square Type Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

**Description**

The PE9847 is a waveguide to coaxial adapter operating in the X-Ku band with a 10 to 15 GHz frequency range. This adapter offers a WR-75 waveguide interface size coupled with a precision tolerance square Type flange. The PE9847 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

**Configuration**

Waveguide Size	WR-75
Flange	Square Type
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	End Launch

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		15	GHz
VSWR			1.4:1	
Input Power (Peak)			100	Watts

**Mechanical Specifications**

<b>Size</b>	
Length	1.5 in [38.1 mm]
Width	1.5 in [38.1 mm]
Height	1.42 in [36.07 mm]
Weight	0.186 lbs [84.37 g]

**RF Connector**

Connector Type	SMA Female
Body Material and Plating	Stainless Steel

**Waveguide Interface**

Waveguide Type	WR-75
Flange Type	Square Type
Body Material and Plating	Aluminum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band PE9847](#)



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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

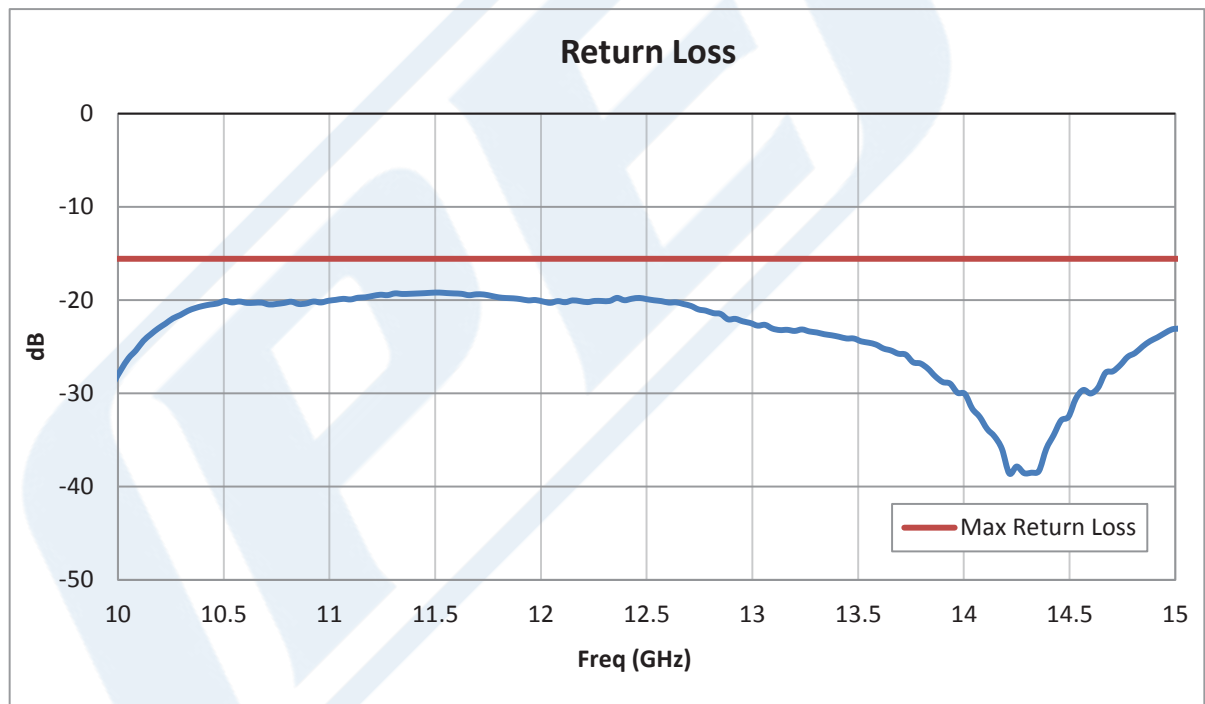
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level unless stated otherwise

**Typical Performance Data**



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WR-75 Square Type Flange to End Launch SMA Female Waveguide to Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

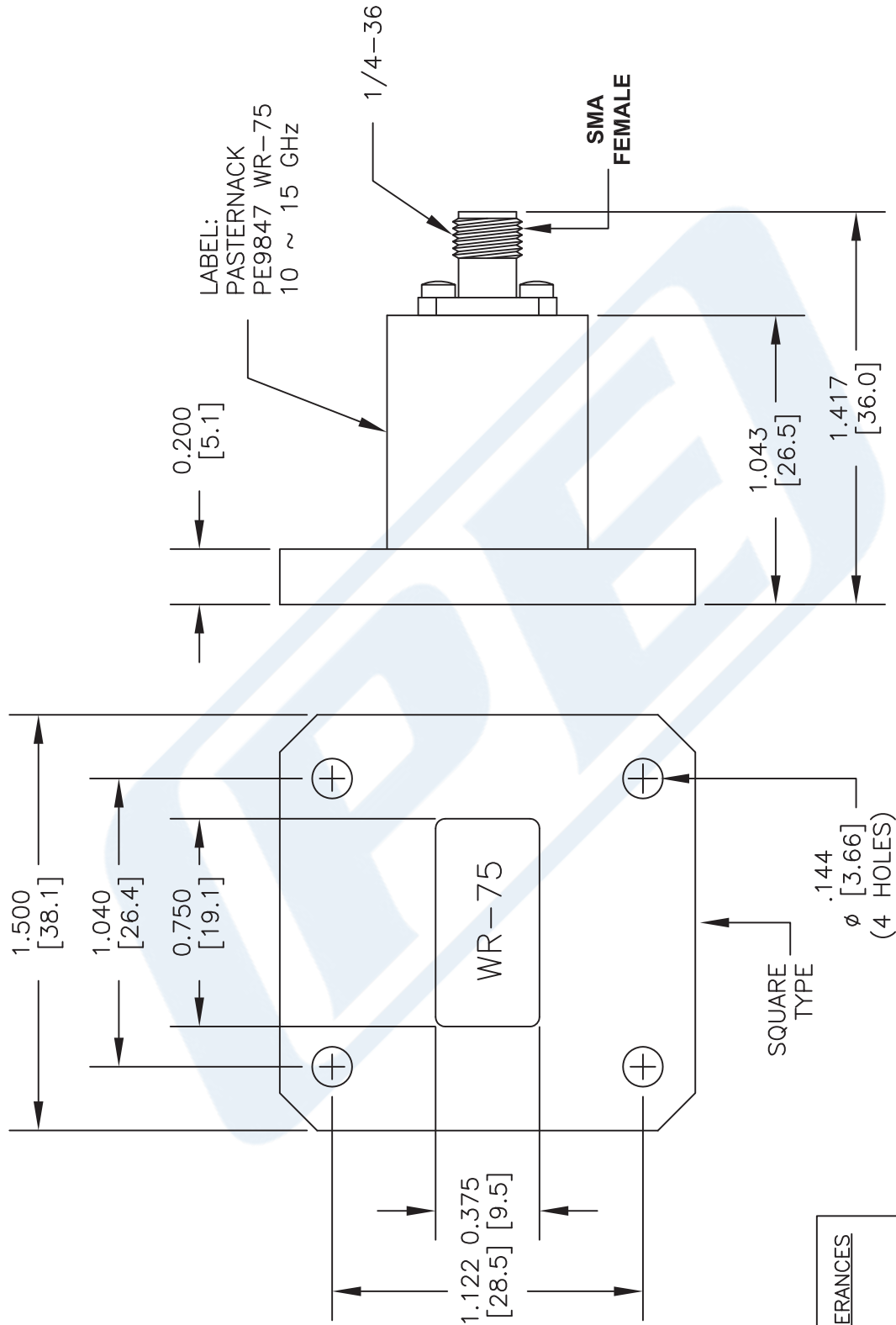
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE9847 CAD Drawing

WR-75 Square Type Flange to End Launch SMA Female Waveguide to  
Coax Adapter Operating From 10 GHz to 15 GHz, X-Ku Band



STANDARD TOLERANCES  
DECIMAL

$\pm 0.012$

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

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DWG TITLE

**PE9847**

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919

CAD FILE 060717

SCALE N/A

SIZE A

2233